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1   Investigating Ontologies for Simulation Modeling   ■
John A. Miller, Gregory T. Baramidze, Amit P. Sheth, Paul A. Fishwick
April 2004 **Proceedings of the 37th annual symposium on Simulation ANSS '04**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(215.08 KB)   Additional Information: full citation, abstract, index terms

> Many fields have or are developing ontologies for theirsubdomains. The Gene Ontology
> (GO) is now consideredto be a great success in biology, a field that has alreadydeveloped
> several extensive ontologies. Similar advantagescould accrue to the simulation and
> modeling community.Ontologies provide a way to establish common vocabularies and
> capture domain knowledge for organizing the domain with a community wide agreement
> or with the context of agreement between leading domain experts. Theycan be us ...

2   Military applications: A formation behavior for large-scale micro-robot force   ■
deployment
Donald D. Dudenhoeffer, Michael P. Jones
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: 📄 pdf(388.69 KB)   Additional Information: full citation, abstract, references, citings

> Micro-robots will soon be available for deployment by the thousands. Consequently,
> controlling and coordinating a force this large to accomplish a prescribed task is of great
> interest. This paper describes a flexible architecture for modeling thousands of
> autonomous agents simultaneously. The agents' behavior is based on a subsumption
> architecture in which individual behaviors are prioritized with respect to all others. The
> primary behavior explored in this work is a group formation behavior bas ...

3   Mereotopological reasoning about parts and (w)holes in bio-ontologies   ■
🔷   Stefan Schulz, Udo Hahn
October 2001 **Proceedings of the international conference on Formal Ontology in
Information Systems - Volume 2001**
Publisher: ACM Press

Full text available: 📄 pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

> We here deal with mereotopological properties of parts and associated wholes, locations
> and empty spaces (holes), with particular reference to biological structures. Our
> considerations lead to a basic ontology which contains 'solid object', 'hole' and 'boundary'
> as mutually disjoint primitives. Formally, we embed the relations 'part-of' and 'location-of'
> into a parsimonious description logic (ALC) and emulate partonomic and spatial reasoning
> involving these relations by terminological su ...

4 Full Technical Papers: Illustrative shadows: integrating 3D and 2D information displays

Felix Ritter, Henry Sonnet, Knut Hartmann, Thomas Strothotte

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**

Publisher: ACM Press

Full text available: 📄 pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, index terms

Many exploration and manipulation tasks benefit from a coherent integration of multiple views onto complex information spaces. This paper proposes the concept of *Illustrative Shadows* for a tight integration of interactive 3D graphics and schematic depictions using the shadow metaphor. The shadow metaphor provides an intuitive visual link between 3D and 2D visualizations integrating the different displays into one combined information display. Users interactively explore spatial relations ...

Keywords: information visualization, spreading activation

5 The LyriC language: querying constraint objects

Alexander Brodsky, Yoram Kornatzky

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(1.45 MB)   Additional Information: full citation, abstract, references, citings, index terms

We propose a novel data model and its language for querying object-oriented databases where objects may hold spatial, temporal or constraint data, conceptually represented by linear equality and inequality constraints. The proposed *LyriC* language is designed to provide a uniform and flexible framework for diverse application realms such as (1) constraint-based design in two-, three-, or higher-dimensional space, (2) large-scale optimization and analysis, based mostly on linear programming ...

6 Deciding validity in a spatial logic for trees

Cristiano Calcagno, Luca Cardelli, Andrew D. Gordon

January 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN international workshop on Types in languages design and implementation TLDI '03**, Volume 38 Issue 3

Publisher: ACM Press

Full text available: 📄 pdf(322.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

(MATH) We consider a propositional spatial logic for finite trees. The logic includes *A* ???? Par *B* (tree composition), *A* ???? *B* (the implication induced by composition), and **O** (the unit of composition). We show that the satisfaction and validity problems are equivalent, and decidable. The crux of the argument is devising a finite enumeration of trees to consider when deciding whether a spatial implication is satisfied. We introduce a sequent calculus for the lo ...

7 Session 9B: coordination and cooperation I: Vowels co-ordination model

Joao Luis T. da Silva, Yves Demazeau

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Publisher: ACM Press

Full text available: 📄 pdf(227.46 KB)   Additional Information: full citation, abstract, references, index terms

In Multi-Agent Systems, co-ordination plays an important role and addresses a hard problem when taken at distributed and dynamic way. Up to now, several approaches embark solving mechanisms upon agent, interaction, organisation or environment levels indistinctly. However, in a Multi-Agent Oriented Programming perspective, we need to consider the dynamics at every MAS component. In this article we address this MAOP view

through a co-ordination model based on the Vowels Paradigm, which offers a co ...

Keywords: coordination, multi-agent planning, multi-agent systems

8 Metaphoric generalization through sort coercion

Ellen Hays, Samuel Bayer

June 1991 **Proceedings of the 29th annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(609.69 KB)

Publisher Site

Additional Information: full citation, abstract, references

This paper presents a method for interpreting metaphoric language in the context of a portable natural language inferface. The method licenses metaphoric uses via coercions between incompatible ontological sorts. The machinery allows both previously-known and unexpected metaphoric uses ot be correctly interpreted and evaluated with respect to the backend expert system.

9 Strategic directions in constraint programming

Pascal Van Hentenryck, Vijay Saraswat

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(402.08 KB)   Additional Information: full citation, references, citings, index terms

10 A model of multimedia information retrieval

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia

September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

Publisher: ACM Press

Full text available: pdf(5.69 MB)

Additional Information: full citation, abstract, references, citings, index terms

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

Keywords: Description logics, fuzzy logics, multimedia information retrieval

11 On a model of indexability and its bounds for range queries

Joseph M. Hellerstein, Elias Koutsoupias, Daniel P. Miranker, Christos H. Papadimitriou, Vasilis Samoladas

January 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 1

Publisher: ACM Press

Full text available: pdf(190.89 KB)

Additional Information: full citation, abstract, references, index terms, review

We develop a theoretical framework to characterize the hardness of indexing data sets on block-access memory devices like hard disks. We define an indexing workload by a data set and a set of potential queries. For a workload, we can construct an indexing scheme, which is a collection of fixed-sized subsets of the data. We identify two measures of efficiency for an indexing scheme on a workload: *storage redundancy, r* (how many times each item in the data set is stored), and *access over ...*

Keywords: *Database, index, indexability, lower bounds, multidimensional, query,*

12 TourisT: the application of a description logic based semantic hypermedia system for tourism
Joe Bullock, Carole Goble
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
Publisher: ACM Press
Full text available: pdf(1.57 MB)   Additional Information: full citation, references, citings, index terms

13 Constraint databases: promising technology or just intellectual exercise?
Alexander Brodsky
December 1996 **ACM Computing Surveys (CSUR)**
Publisher: ACM Press
Full text available: ps(154.54 KB)   Additional Information: full citation, references

14 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

15 Advanced data processing in KRISYS: modeling concepts, implementation techniques, and client/server issues
Stefan Deßloch, Theo Härder, Nelson Mattos, Bernhard Mitschang, Joachim Thomas
May 1998 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 7 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(210.27 KB)   Additional Information: full citation, abstract, citings, index terms

The increasing power of modern computers is steadily opening up new application domains for advanced data processing such as engineering and knowledge-based applications. To meet their requirements, concepts for advanced data management have been investigated during the last decade, especially in the field of object orientation. Over the last couple of years, the database group at the University of Kaiserslautern has been developing such an advanced database system, the KRISYS prototype. In this ...

Keywords: Client/server architectures, Consistency control, Object-oriented modeling concepts, Query processing, Run-time optimization

16 Conceptual modeling and metadata: Grid metadata catalog service-based OGC web registry service
Peisheng Zhao, Aijun Chen, Yang Liu, Liping Di, Wenli Yang, Peichuan Li
November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**

Publisher: ACM Press

Full text available: pdf(128.43 KB)   Additional Information: full citation, abstract, references, index terms

Grid is a promising e-Science infrastructure that promotes and facilitates the sharing and collaboration in the use of distributed heterogeneous resources through Virtual Organization (VO). A critical factor to the overall utility of Grid is a scalable, flexible and robust registry mechanism. Although it provides some mechanisms to store and access metadata for publishing and discovering resources, such as MCS (Metadata Catalog Service), the Grid registry is inadequate for dealing with domain ...

Keywords: OGC, OWL, catalog, grid, information model, ontology, semantic

17 <u>Separability of polyhedra for optimal filtering of spatial and constraint data</u>

Alexander Brodsky, Catherine Lassez, Jean-Louis Lassez, Michael J. Maher
May 1995 **Proceedings of the fourteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press

Full text available: pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms

18 <u>The use of description logics in KBSE systems</u>

Premkumar Devanbu, Mark A. Jones
April 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 6 Issue 2
Publisher: ACM Press

Full text available: pdf(365.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

The increasing size and complexity of many software systems demand a greater emphasis on capturing and maintaining knowledge at many different levels within the software development process. This knowledge includes descriptions of the hardware and software components and their behavior, external and internal design specifications, and support for system testing. The Knowledge-based software engineering (KBSE) research paradigm is concerned with systems that use formally represented knowledg ...

Keywords: automated software engineering, knowledge basis, logics, software development environments, testing, tools

19 <u>NEXP TIME-complete description logics with concrete domains</u>

Carsten Lutz
October 2004 **ACM Transactions on Computational Logic (TOCL)**, Volume 5 Issue 4
Publisher: ACM Press

Full text available: pdf(477.23 KB)   Additional Information: full citation, abstract, references, index terms

Concrete domains are an extension of Description Logics (DLs) that allow one to integrate reasoning about conceptual knowledge with reasoning about "concrete qualities" of real-world entities such as their sizes, weights, and durations. In this article, we are concerned with the complexity of Description Logics providing for concrete domains: starting from the complexity result established in Lutz [2002b], which states that reasoning with the basic propositionally closed DL with concrete doma ...

Keywords: Computational complexity, NExpTime-completeness, concrete domains, description logic, domino problem, post correspondence problem

20 <u>Special section: Reasoning about structure, behavior and function</u>

B. Chandrasekaran, Rob Milne
July 1985 **ACM SIGART Bulletin**, Issue 93

Publisher: ACM Press

Full text available: pdf(5.13 MB)   Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

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21 Reference identification and reference identification failures   ▬

Bradley A. Goodman
October 1986 **Computational Linguistics**, Volume 12 Issue 4
Publisher: MIT Press
Full text available: 📄 pdf(3.17 MB) 🗐 Additional Information: full citation, abstract, references, citings
Publisher Site

The goal of this work is the enrichment of human-machine interactions in a natural language environment. Because a speaker and listener cannot be assured to have the same beliefs, contexts, perceptions, backgrounds, or goals at each point in a conversation, difficulties and mistakes arise when a listener interprets a speaker's utterance. These mistakes can lead to various kinds of misunderstandings between speaker and listener, including reference failures or failure to understand the speaker's ...

22 Applications of GIR: Ontology-based service discovery in spatial data infrastructures   ▬

❖ Michael Lutz
November 2005 **Proceedings of the 2005 workshop on Geographic information retrieval GIR '05**
Publisher: ACM Press
Full text available: 📄 pdf(246.57 KB)   Additional Information: full citation, abstract, references, index terms

Spatial data infrastructures will greatly benefit from the ability to compose services providing geospatial data with services for processing these data. Discovering suitable geoprocessing services is a major challenge in this endeavour. Current (keyword-based) approaches to service discovery are inherently restricted by the ambiguities of natural language, which can lead to low precision and/or recall. To alleviate these problems, we propose a methodology for service discovery which uses ontolo ...

Keywords: ontologies, service discovery, spatial data infrastructures

23 Organizational modelling and problem solving using object-oriented knowledge representation server and visual language   ▬

❖ Brian R. Gaines
October 1991 **ACM SIGOIS Bulletin , Conference proceedings on Organizational computing systems COCS '91**, Volume 12 Issue 2-3
Publisher: ACM Press
Full text available: 📄 pdf(1.32 MB)   Additional Information: full citation, references, index terms

24

Hyperstructure: A comparison of hyperstructures: zzstructures, mSpaces, and polyarchies

Michael J. McGuffin, m. c. schraefel
August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**
Publisher: ACM Press
Full text available: pdf(643.93 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Hypermedia applications tend to use simple representations for navigation: most commonly, nodes are organized within an unconstrained graph, and users are presented with embedded links or lists of links. Recently, new data structures have emerged which may serve as alternative models for both the organization, and presentation, of hypertextual nodes and links. In this paper, we consider zzstructures, mSpaces, and polyarchies from the perspective of graph theory, and compare these models formally ...

Keywords: ZigZag, connective structures, edge-coloured graphs, mSpace, multitrees, polyarchies, zzstructures

25 The use of description logics in KBSE systems: experience report

Premkumar T. Devanbu, Mark A. Jones
May 1994 **Proceedings of the 16th international conference on Software engineering**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.39 MB)   Additional Information: <u>full citation</u>, <u>references</u>

26 Poster papers - short papers: An evaluation of the incorporation of a semantic network into a multidimensional retrieval engine

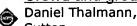Jinho Lee, David Grossman, Ratko Orlandic
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(186.75 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper describes a new method for incorporating a hierarchical category dimension into an Information Retrieval framework. The approach is to use the synonym sets and the hyponym ("is-a") relations defined within Wordnet in order to derive a conceptual hierarchical category dimension. The hierarchical nature of a category dimension not only provides an overview of a set of documents but also facilitates the effectiveness and the efficiency of searching documents. An evaluation is performed o ...

27 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04.**
Publisher: ACM Press
Full text available: pdf(20.19 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

28 Conceptual modeling and metadata: Using ontologies in personalized mobile applications

Norbert Weißenberg, Agnès Voisard, Rüdiger Gartmann

November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**

Publisher: ACM Press

Full text available: pdf(591.69 KB)   Additional Information: full citation, abstract, references, index terms

Mobile devices such as personal digital assistants (PDAs) and mobile phones are in widespread use already today and converging to mobile smart phones. They enable the users to access a wide range of services and information without guiding them through their actual demands. Especially during mass events like the Olympic Games 2008 in Beijing - which was initially the context of our work - a large service space is expected to support all mobile visitors, being athletes, journalists, or spectat ...

Keywords: context, inference, mobile application, ontology, service, situation, user profile

29 Information access and retrieval (IAR): A knowledge based system for content-based retrieval of Scalable Vector Graphics documents

Eugenio Di Sciascio, Francesco M. Donini, Marina Mongiello
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(232.89 KB)   Additional Information: full citation, abstract, references, index terms

Scalable Vector Graphics (*SVG*), the novel XML based language for describing two-dimensional graphics, is now a W3C standard and it is likely to become popular on the Internet, due to its inherent advantages over raster image formats in several domains. We present a system for semantic based retrieval by content of *SVG*. The system is endowed of a web crawler for documents search and a graphical interface for query by sketch. The approach adopted in the system implements a simple des ...

30 Dialog and semantics: An approach to multilevel semantics for applied systems

Alberto Lavelli, Bernardo Magnini, Carlo Strapparava
March 1992 **Proceedings of the third conference on Applied natural language processing**

Publisher: Association for Computational Linguistics

Full text available: pdf(839.68 KB)
Publisher Site   Additional Information: full citation, abstract, references

Multilevel semantics has been proposed as a powerful architecture for semantic analysis. We propose a methodology that, while maintaining the generality of the multilevel approach, is able to establish formal constraints over the possible ways to organize the level hierarchy. More precisely, we propose a "strong" version of the multilevel approach in which a level can be defined if and only if it is possible to characterize a *"meaningfulness"* notion peculiar to that level. Within s ...

31 Similarity-based retrieval for diverse bookshelf software repository users

Igor Jurisica
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(126.60 KB)   Additional Information: full citation, abstract, references, index terms

The paper presents a similarity-based retrieval framework for a software repository that aids the process of maintaining, understanding, and migrating legacy software systems [12].Designing a software repository involves three issues: (1) information content; (2) information representation; and (3) strategies for accessing repository artifacts. Assuming the architecture presented in [12] we extend the retrieval system to support imprecise queries, iterative browsing, and diverse users. Because o ...

32

Mining multimedia data

Osmar R. Zaïane, Jiawei Han, Ze-Nian Li, Jean Hou
November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press

Full text available: 📄 pdf(377.84 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Data Mining is a young but flourishing field. Many algorithms and applications exist to mine different types of data and extract different types of knowledge. Mining multimedia data is, however, at an experimental stage.We have implemented a prototype for mining high-level multimedia information and knowledge from large multimedia databases. MultiMedia Miner has been designed based on our years of experience in the research and development of a relational data mining system, DBMiner, in the Inte ...

Keywords: data cube, data mining, data warehousing, image analysis, information retrieval, multimedia, world-wide web

33 <u>Separating world and regulation knowledge: where is the logic</u>
Joost Breuker, Nienke den Haan
May 1991 **Proceedings of the 3rd international conference on Artificial intelligence and law**
Publisher: ACM Press

Full text available: 📄 pdf(642.21 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

34 <u>Aspects of the taxonomic relation in the biomedical domain</u>
Anita Burgun, Olivier Bodenreider
October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**
Publisher: ACM Press

Full text available: 📄 pdf(1.36 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Taxonomies are commonly used for organizing knowledge, particularly in biomedicine where the taxonomy of living organisms and the classification of diseases are central to the domain. The principles used to produce taxonomies are either intrinsic (properties of the partial ordering relation) or added to make knowledge more manageable (opposition of siblings and economy). The applicability of these principles in the biomedical domain is presented using the Unified Medical Language System ...

Keywords: biomedical domain, ontology, taxonomic relation, unified medical language system

35 <u>The FINITE STRING Newsletter: Abstracts of current literature</u>
Computational Linguistics Staff
January 1987 **Computational Linguistics,** Volume 13 Issue 1-2
Publisher: MIT Press

Full text available: 📄 pdf(6.15 MB) 📑   Additional Information: <u>full citation</u>
<u>Publisher Site</u>

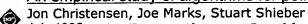**36** <u>The Quadtree and Related Hierarchical Data Structures</u>
Hanan Samet
June 1984 **ACM Computing Surveys (CSUR),** Volume 16 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(4.87 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

37 <u>An empirical study of algorithms for point-feature label placement</u>

Jon Christensen, Joe Marks, Stuart Shieber
July 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 3
Publisher: ACM Press

Full text available: pdf(5.38 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

> A major factor affecting the clarity of graphical displays that include text labels is the degree to which labels obscure display features (including other labels) as a result of spatial overlap. Point-feature label placement (PFLP) is the problem of placing text labels adjacent to point features on a map or diagram so as to maximize legibility. This problem occurs frequently in the production of many types of informational graphics, though it arises most often in automated cartography. In ...

> **Keywords**: automated cartography, heuristic search, label placement, simulated annealing, stochastic methods

38 <u>An integrated model of semantic and conceptual interpretation from dependency structures</u>

Udo Hahn, Martin Romacker
July 2000 **Proceedings of the 18th conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(750.00 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

> We propose a two-layered model for computing semantic and conceptual interpretations from dependency structures. Abstract interpretation schemata generate semantic interpretations of 'minimal' dependency subgraphs, while production rules whose specification is rooted in ontological categories derive a canonical conceptual interpretation from semantic interpretation structures. Configurational descriptions of dependency graphs increase the linguistic generality of interpretation schemata, while i ...

39 <u>Spatio-temporal data reduction with deterministic error bounds</u>

Hu Cao, Ouri Wolfson, Goce Trajcevski
September 2003 **Proceedings of the 2003 joint workshop on Foundations of mobile computing**
Publisher: ACM Press

Full text available: pdf(243.00 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> A common way of storing spatio-temporalinformation about mobile devices is in the form of a 3D (2D geography + time) trajectory. We argue that when cellular phones and Personal Digital Assistants become location-aware, the size of the spatio-temporal information generated may prohibit efficient processing. We propose to adopt a technique studied in computer graphics, namely line-simplification, as an approximation technique to solve this problem. Line simplification uses a distance function in p ...

> **Keywords**: line simplification, moving objects database

40 <u>Special issue on on inductive logic programming: llp: a short look back and a longer look forward</u>

David Page, Ashwin Srinivasan
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(103.21 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Inductive logic programming (ILP) is built on a foundation laid by research in machine

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42   DB-3 (databases): data mining: Framework and algorithms for trend analysis in   ◪
     massive temporal data sets
     Sreenivas Gollapudi, D. Sivakumar
     November 2004 **Proceedings of the thirteenth ACM international conference on**
                    Information and knowledge management CIKM '04
     Publisher: ACM Press

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     Mining massive temporal data streams for significant trends, emerging buzz, and
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     metric spaces to study such problems. Our framework provides the necessary
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     the stream/sort model of massive data sets (where the algorithm makes passes over the
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     Keywords: data stream algorithms, hierarchically partitioned data, metric
     approximations, taxonomies, trend analysis

43   Special issue on natural language generation: A generative perspective on verb   ◪
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     Manfred Stede
     September 1998 **Computational Linguistics**, Volume 24 Issue 3
     Publisher: MIT Press

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     Verb alternations have been researched extensively in linguistics, but they have not yet
     received a systematic treatment in natural language generation systems; consequently,
     generators cannot make informed choices among alternatives. As a step towards
     overcoming this discrepancy, we review some linguistic work on several prominent
     alternations, revise and extend it, and suggest a set of rules that allow the series of

alternated forms to be produced from a single base form of the verb, the lexic ...

44 Complex relationships and knowledge discovery support in the InfoQuilt system
A. Sheth, S. Thacker, S. Patel
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases,**
Volume 12 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(596.98 KB)   Additional Information: full citation, abstract, citings, index terms

Support for semantic content is becoming more common in Web-accessible information systems. We see this support emerging with the use of ontologies and machine-readable, annotated documents. The practice of domain modeling coupled with the extraction of domain-specific, contextually relevant metadata also supports the use of semantics. These advancements enable knowledge discovery approaches that define complex relationships between data that is autonomously collected and managed. The InfoQuilt ...

45 Semantic web services: Foundations for service ontologies: aligning OWL-S to dolce
Peter Mika, Daniel Oberle, Aldo Gangemi, Marta Sabou
May 2004 **Proceedings of the 13th international conference on World Wide Web**
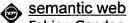**Publisher:** ACM Press
Full text available: pdf(234.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

Clarity in semantics and a rich formalization of this semantics are important requirements for ontologies designed to be deployed in large-scale, open, distributed systems such as the envisioned Semantic Web This is especially important for the description of Web Services, which should enable complex tasks involving multiple agents. As one of the first initiatives of the Semantic Webcommunity for describing Web Services, OWL-S attracts a lot of interest even though it is still under development. ...

Keywords: core ontology of services, daml-s, descriptions and situations, dolce, owl-s, semantic web, web services

46 Session 9A: applications in commerce: A multi-agent platform for a corporate semantic web
Fabien Gandon, Laurent Berthelot, Rose Dieng-Kuntz
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**
Publisher: ACM Press
Full text available: pdf(376.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe the technical choices and the design of a multi-agents software architecture to manage a corporate memory in the form of a corporate semantic web. We then present our approach to tackle a distributed memory and distributed queries.

Keywords: MAS architecture, distributed knowledge management, ontology, semantic web

47 Selected IR-Related Dissertation Abstracts
September 1991 **ACM SIGIR Forum,** Volume 25 Issue 2
Publisher: ACM Press
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48 <u>Abstracts of current literature</u>
Computational Linguistics Staff
June 1989 **Computational Linguistics**, Volume 15 Issue 2

Publisher: MIT Press
Full text available: <u>pdf(642.69 KB)</u>
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49 <u>Technical Papers: Ontology-based metadata generation from semi-structured</u>
<u>information</u>
Heiner Stuckenschmidt, Frank van Harmelen
October 2001 **Proceedings of the 1st international conference on Knowledge capture**
          K-CAP '01

Publisher: ACM Press
Full text available: <u>pdf(655.80 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Content-related metadata plays an important role in intelligent information systems.
> Especially on the world-wide web meaningful metadata describing the contents of a web-
> site is the key to intelligent retrieval and access of information. Metadata description
> standards like RDF and RDF schema have been developed and work in progress addresses
> the use of ontologies to provide a logical foundation for metadata. However, the
> acquisition of appropriate metadata is still a problem. The main part of t ...

50 <u>Posters/Demos: A semantic framework for meeting data retrieval</u>
Weisheng He, Peifeng Xiang, Yuanchun Shi
November 2005 **Proceedings of the 2nd ACM workshop on Continuous archival and**
          retrieval of personal experiences CARPE '05

Publisher: ACM Press
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> Meetings are often captured for future access in daily life and with an increasing amount of
> such record, computers should be used to process and retrieve the meeting content to
> improve the access efficiency. This requires a semantic framework to formally represent
> and model the meeting procedure and user intentions so that they can be processed by
> machines. In this paper, we present a framework, MiF (Meeting information Framework),
> to structurally formalize meeting contents and user retrieval q ...
>
> **Keywords:** formalization, inference engine, meeting record, ontology, semantic primitive

51 <u>Natural language and inference in a computer game</u>
Malte Gabsdil, Alexander Koller, Kristina Striegnitz
August 2002 **Proceedings of the 19th international conference on Computational**
          linguistics - Volume 1

Publisher: Association for Computational Linguistics
Full text available: <u>pdf(81.10 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

> We present an engine for text adventures - computer games with which the player
> interacts using natural language. The system employs current methods from
> computational linguistics and an efficient inference system for description logic to make
> the interaction more natural. The inference system is especially useful in the linguistic
> modules dealing with reference resolution and generation and we show how we use it to
> rank different readings in the case of referential and syntactic ambiguities. It ...

52 <u>Web technologies and applications (WTA): Semantic enrichment for improving</u>
<u>systems interoperability</u>
Xiaomeng Su, Sari Hakkarainen, Terje Brasethvik

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(875.45 KB)   Additional Information: full citation, abstract, references, index terms

The overall goal addressed in this paper is to improve semantic interoperability in heterogeneous systems by means of establishing mappings between relevant domain ontologies. The mappings are discovered based on the technique of semantic enrichment through extension analysis, i.e. using instance information of the ontology to enrich the original ontology and further to calculate similarities between concepts in two ontologies. Text categorization is used to automatically assign instance to the ...

53 Other contributed papers: Computational aspects of discourse in the context of MUC-3

Lucja Iwańska, Douglas Appelt, Damaris Ayuso, Kathy Dahlgren, Bonnie Glover Stalls, Ralph Grishman, George Krupka, Christine Montgomery, Ellen Riloff
May 1991 **Proceedings of the 3rd conference on Message understanding MUC3 '91**
Publisher: Association for Computational Linguistics
Full text available: pdf(2.07 MB)   Additional Information: full citation, abstract, references

Discourse comprises those phenomena that usually do not arise when processing a single sentence. It appears to be the most difficult and probably the least understood aspect of automated message understanding. Five out of fifteen sites on a MUC-3 survey listed discourse as their main weakness and an area in which to concentrate future research. Virtually all systems presented here take a sentence-by-sentence approach to text understanding. Parsing and domain-dependent interpretation of sentences ...

54 Metadata for digital libraries: architecture and design rationale

Michelle Baldonado, Chen-Chuan K. Chang, Luis Gravano, Andreas Paepcke
July 1997 **Proceedings of the second ACM international conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.65 MB)   Additional Information: full citation, references, citings, index terms

Keywords: CORBA, InfoBus, attrabute model translation, attribute model translation, digital libraries, heterogeneity, interoperability, metadata architecture, metadata repository, proxy architecture

55 Research sessions: Web, XML and IR: Understanding Web query interfaces: best-effort parsing with hidden syntax

Zhen Zhang, Bin He, Kevin Chen-Chuan Chang
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(431.29 KB)   Additional Information: full citation, abstract, references, citings

Recently, the Web has been rapidly "deepened" by many searchable databases online, where data are hidden behind query forms. For modelling and integrating Web databases, the very first challenge is to understand what a query interface says- or what *query capabilities* a source supports. Such automatic extraction of interface semantics is challenging, as query forms are created autonomously. Our approach builds on the observation that, across myriad sources, query forms seem to reveal some ...

56 Measuring infinite relations

Jan Chomicki, Gabriel Kuper
May 1995 **Proceedings of the fourteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press

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57 <u>RELIEF: combining expressiveness and rapidity into a single system</u>
Iadh Ounis, Marius Paşca
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(2.01 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

58 <u>Book reviews: Review of "Lexical semantics and knowledge representation in multilingual text generation" by Manfred Stede. Kluwer Academic Publishers 1999.</u>
Barbara Di Eugenio
June 2000 **Computational Linguistics**, Volume 26 Issue 2
Publisher: MIT Press
Full text available: pdf(247.98 KB)
<u>Publisher Site</u>   Additional Information: <u>full citation</u>, <u>references</u>

59 <u>The cognitive architecture project</u>
Dan Hammerstrom, David Maier, Shreekant Thakkar
January 1986 **ACM SIGARCH Computer Architecture News**, Volume 14 Issue 1
Publisher: ACM Press
Full text available: pdf(993.33 KB)   Additional Information: <u>full citation</u>, <u>citings</u>, <u>index terms</u>

60 <u>Composing Web services on the Semantic Web</u>
Brahim Medjahed, Athman Bouguettaya, Ahmed K. Elmagarmid
November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(1.29 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Service composition is gaining momentum as the potential *silver bullet* for the envisioned *Semantic Web*. It purports to take the Web to unexplored efficiencies and provide a flexible approach for promoting all types of activities in tomorrow's Web. Applications expected to heavily take advantage of Web service composition include B2B E-commerce and E-government. To date, enabling composite services has largely been an ad hoc, time-consuming, and error-prone process involving r ...

Keywords: Ontology, Semantic Web, Service composition, Web services

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